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ON TAP

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TCWD'S WATER SOURCES

Trabuco Canyon Water District (TCWD) has a variety of water supply sources, including imported wholesale water supplies, groundwater, and recycled waters.

The District has a total purchased annually capacity of 7,240 acre feet of wholesale water supply. The annual capacity totals 4,340 acre feet per year (AF/Y) in the V. P. Baker Aqueduct and 2,900 AF/Y in the Allen-McColloch Pipeline (AMP). In addition, the District has an additional 2 cubic feet per second (cfs) hydraulic capacity (1,450 AF/Y) in the AMP should additional water become available and needed.

District residential customers currently use about 3,000 AF/Y, and landscaping needs total about 1,250 AF/Y. Other users include commercial, institutional and agriculture customers.

TCWD delivers potable (drinking) water through its pressurized water system consisting of approximately 56 miles of pipelines and nine primary pressure zones.

The District receives untreated imported water from the V. P. Baker Aqueduct which receives Colorado River water flowing from Lake Mathews. TCWD's operational personnel treat this water at its Dimension Water Treatment Plant. The treated water is then pumped into the District and distributed throughout the District's entire service area.

The AMP water is treated by Metropolitan Water District of Southern California (MET) at MET's Diemer Filtration Plant in Yorba Linda. Water from the AMP is conveyed to the District by Santa Margarita Water District through the South County Pump Station and South County Pipeline/Antonio Delivery System, respectively. The District purchased 6 cfs of capacity in this system, and the treated water enters the District at the Plano Trabuco Road interconnection with Santa Margarita Water District.

The District's groundwater sources include the District-owned Rose Canyon and Lang Wells, and the privately owned Upper Schwendeman Well. Groundwater from the Arroyo Trabuco aquifer, part of the San Juan Valley Groundwater Basin, is treated at each well and pumped into the District's distribution system. The groundwater sources are highly desirable in terms of water quality, cost, utilization of local energy resources, and also contribute to the District and Southern California being less dependent on imported water supplies on an overall basis. Groundwater production varies depending on seasonal rainfall, with marginal water production during dry periods or periods of severe drought.

In addition to these sources, the District has the capability to obtain surface diversions

from Santiago Reservoir (Irvine Lake) and to transfer and exchange to and from the District and neighboring districts for short durations such as emergencies or water transmission line breaks.

The District owns and operates the Robinson Ranch water Reclamation Plan that provides wastewater collection and treatment for developments on the east side of the District. 100% of the reclaimed water is beneficially used within the District for landscape watering by the Dove Canyon Golf Course, the Dove Canyon Master Association, the Trabuco Highlands Community Association, and the Robinson Ranch Homeowners Association.

The District also owns the urban and storm water runoff that is captured in Dove Lake which is located in the Dove Canyon development. If additional recycled water is needed during the dry season, the District pumps Dove Lake water back to its reclaimed water storage reservoir for distribution to the recycled water users. This practice helps improve the water quality in Dove Lake by providing treatment, including aeration and vegetation controls, and provides an additional source of water. The TCWD processes an average of 100 AF/Y from Dove Lake, which is almost 15 percent of the total amount of recycled water used annually for irrigation within the District.

The reliability of water service is based on evaluating the reliability of local and imported water supplies. TCWD has assessed the supply reliability as part of its 2005 Urban Water Management Plan and determined that has the ability to meet the District's demands by a wide variety of scenarios.

The Regular Board Meeting is held on the third Wednesday of each month at 7:00 p.m. at the District office located at 32003 Dove Canyon Drive, Trabuco Canyon. The public is encouraged to attend.

BOARD HIGHLIGHTS

- ◇ August 16, 2006 – Adopted the Final Mitigated Negative Declaration and approved other actions related to the Dry Season Water Recovery Project, Phase I Dove Canyon, Demolition and Restoration.
- ◇ Approve an Agreement with Santa Margarita Water District for the Collection and Distribution of Water Runoff.
- ◇ Took actions relating to Summerfield Homes, tract No. 15800.
- ◇ Received information relating to the Zadeh Memorandum of Understanding.
- ◇ Approved the final design and installation of the California-Friendly Landscape Design at the Administrative Facility.
- ◇ Discussed the Municipal Water District of Orange County Member Agency Relations Meeting.
- ◇ Conducted three Closed Sessions.
- ◇ August 25, 2006 – Awarded the contract for the Dry Season Water Recovery Project, Phase I Dove Canyon, Demolition and Restoration.
- ◇ Approved the Supplemental Agreement for Sewage Services at The Oaks at Trabuco.

ON TAP is published and distributed by TCWD. We welcome your comments, suggestions and questions. Please call or write

Sharon E. Smith, Editor

TCWD's *ON-TAP*

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